



PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:

Erland R. Sandstrom et al.

U.S. Serial No. 10/625,576

Filed July 23, 2003

Docket No. 2160-1B (FJ-99-36-1B)

For: INJECTION BLOW-MOLDED
DISPOSABLE TUMBLER AND
METHOD OF MAKING SAME

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Examiner: UNKNOWN

Group Art Unit: 1772

Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450

INFORMATION DISCLOSURE STATEMENT UNDER 37 C.F.R. 1.56, 1.97 AND 1.98

Sir:

Applicants submit herewith patents, publications, and other information of which they are aware, which they believe may be material, as defined in 37 C.F.R. 1.56(b), to the examination of this application and in respect of which there may be a duty to disclose in accordance with 37 C.F.R. 1.56(a). While information referred to in this Information Disclosure Statement may be material pursuant to 37 C.F.R. 1.56(b), the filing of this Information Disclosure Statement is not intended to, pursuant to 37 C.F.R. 1.97(h), constitute an admission that any patent, publication or other information referred to is, or is considered to be, material to the patentability of this invention. Pursuant to 37 C.F.R. 1.97(g), the filing of this Information Disclosure Statement shall not be construed to mean that a search has been made or that no other material information exists.

- ☒ This information Disclosure Statement is filed within the period set forth in §1.97(b) because it accompanies the new patent application submitted herewith, is filed within three months of the filing date of a national application or within three months of the date of entry of the national stage as set forth in §1.491 in an international application. Or is believed to be filed before the mailing date of a first Office Action on the merits, whichever event occurs last. However, in the event that the first office action has been mailed, the Commissioner is authorized to charge any fees under 37 C.F.R. 1.17(p) or credit any overpayment to Account No. 50-0935.
- ☐ This Information Disclosure Statement is filed after the period set forth in 37 C.F.R. 1.97(b), but is believed to be filed before the mailing date of a final action under §1.311, whichever occurs first.
- ☐ (1) The undersigned attorney certifies that each item of information contained in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this statement;
- ☐ (2) The undersigned attorney certifies that no item of information contained in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application or, to the knowledge of the undersigned attorney after making reasonable inquiry, was known to any individual designated in §1.56 (c) more than three months prior to the filing of this statement; or
- ☐ (3) This Information Disclosure Statement is accompanied by a transmittal letter in which payment of the fee set forth in §1.17(p) and required by 37 C.F.R. 1.97 (c) is authorized.

Other Information**A. Patents**

1. U.S. Patent 3,183,552, issued May 18, 1965, entitled "Plastic Molding Apparatus", to *Farkas*;
2. U.S. Patent 3,339,231, issued September 5, 1967, entitled "Method and Apparatus for Manufacturing By Expansion-Molding Articles in Thermoplastic Material", to *Piotrowski*;
3. U.S. Patent 3,819,314, issued June 25, 1974, entitled "Linear Transfer Injection Blow Molding", to *Marcus*;
4. U.S. Patent 3,951,903, issued April 20, 1976, entitled "Modified Polycarbonate Resin", to *Shaffer*;
5. U.S. Patent 4,046,836, issued September 6, 1977, entitled "Polycarbonate Molding Materials", to *Adelmann et al.*;
6. U.S. Patent 4,081,395, issued March 28, 1978, entitled "Alkaline Detergent Compositions", to *Talley*;
7. U.S. Patent 4,139,517, issued February 13, 1979, entitled "Transparent Pigmented Polycarbonate Container", to *Zaganiacz*;
8. U.S. Patent No. 4,193,494, issued March 18, 1980, entitled "Cup and Package of Cups", to *Green*;
9. U.S. Patent 4,225,304, issued September 30, 1980, entitled "Apparatus for the Preparation of Hollow Plastic Articles", to *Valyi*;
10. U.S. Patent 4,230,298, issued October 28, 1980, entitled "Apparatus for the Preparation of Hollow Plastic Articles", to *Valyi*;
11. U.S. Patent 4,234,302, issued November 18, 1980, entitled "Apparatus for the Preparation of Hollow Plastic Articles", to *Valyi*;
12. U.S. Patent 4,308,086, issued December 29, 1981, entitled "Apparatus for the Preparation of Hollow Plastic Articles With a Base Cup", to *Valyi*;
13. U.S. Patent No. 4,513,037, issued April 23, 1985, entitled "Multilayered Hollow Polycarbonate Containers", to *Collins*;
14. U.S. Patent 4,540,543, issued September 10, 1985, entitled "Injection Blow Molding Process and Apparatus", to *Thomas et al.*;
15. U.S. Patent No. 5,145,895, issued September 8, 1992, entitled "Blends of Modified Polyarylene Sulfides and Polycarbonates", to *Köhler et al.*;

16. U.S. Patent 5,223,162, issued June 29, 1993, entitled "Washing Composition for inhibiting Stress Cracking in Poly(alkylene terephthalate) Articles and Methods of Use Therefor", to *Rossio*;
17. U.S. Patent 5,427,269, issued June 27, 1995, entitled "Large Drink Container to Fit Vehicle Cup Holder", to *Willbrandt*;
18. U.S. Patent 5,433,337, issued July 18, 1995, entitled "Large Drink Container to Fit Vehicle Cup Holders", to *Willbrandt*;
19. U.S. Patent No. 5,449,089, issued September 12, 1995, entitled "Bell Fountain Cup", to Turner et al.;
20. U.S. Patent No. 5,466,413, issued November 14, 1995, entitled "Method and Apparatus for Blow Molding a Plastic Drinking Vessel", to *Richter et al.*;
21. U.S. Patent 5,494,952, issued February 27, 1996, entitled "Process for Production of Stabilized Polycarbonate", to *Hirata et al.*;
22. U.S. Patent 5,693,278, issued December 7, 1997, entitled "Method of Producing Disposable Articles Utilizing Polyethylene Terephthalate (PET)", to *Clements*;
23. U.S. Patent No. 6,047,851, issued April 11, 2000, entitled "Injection Blow Molded Container and Related Method", to *Freek et al.*; and
24. U.S. Patent 6,050,509, issued April 18, 2000, entitled "Method of Manufacturing Polymer-Grade Clay for Use in Nanocomposites", to *Clarey et al.*

B. Article

1. *Kirk-Othmer Encyclopedia of Chemical Technology*, Fourth Edition, Vol. 19, p. 600.

C. Foreign Patents / Publications

1. Canadian Patent 995,418, issued August 24, 1976, entitled "Thermoplastics Moulding Method and Apparatus", to *Cannon et al.*;
2. German Offenlegungsschrift 2 007 552 published September 2, 1971, entitled "Nestable Containers", to *Davis* (United States Patent No. 3,484,018, the U.S. equivalent to German Offenlegungsschrift 2 007 552, is also enclosed);

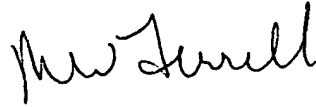
3. EPO Publication No. EP 1 008 528 A2, published June 14, 2000, entitled "Injection Blow-Molded Disposable Tumbler and Method of Making Same", to *Sandstrom et al.*;
4. EPO Publication No. 0 167 660 A2, published January 15, 1986, entitled "Injection Blow Molding Process and Apparatus", to *Thomas et al.*;
5. EPO Publication No. EP 0 753 540 A2, published January 15, 1997, entitled "Polycarbonate Resin Composition", to *Miya et al.*;
6. EPO Publication No. 0 640 646 A1, published March 1, 1995, entitled "Process for Production of Stabilized Polycarbonate", to *Hirata et al.*;
7. EPO Publication No. 0 511 617 A1, published November 4, 1992, entitled "Process of Injection Stretch Blow Molding Hollow Article Having Thick-Walled Bottom", to *Yokobayashi*.
8. PCT Publication No. WO 95/02979, published February 2, 1995, entitled "Beaker-Shaped Drinking Vessel", to *Witten*; and
9. JP Publication No. 53 064262 A, published June 8, 1978, to Mitsubishi Gas Chem Co.

D. Other Foreign Publications

1. *Japanese Kokai 59-209520* disclosed polypropylene mineral-filled sheet and articles made therefrom. Mineral fillers include mica, talc and the like. This document does not disclose mica/calcium carbonate-filled sheet. (A copy of the publication is enclosed, together with a translation.)
2. *Japanese Kokai 53-84044* discloses a mineral-filled polypropylene composition which may be extruded into sheet or injection molded. The mineral filler is mica. This document does not disclose mica/calcium carbonate mixtures as mineral filler. (A copy of the publication is enclosed, together with a translation.)
3. DATABASE WPI, Section Ch, Week 199719, Derwent Publications Ltd., London, GB; Class A23, AN 1997-209397, XP002176702 & JP 09 059367 A TO *TEIJIN*;
4. PATENT ABSTRACTS OF JAPAN, vol. 017, no. 576 (M-1499), 20 October 1993 & JP 05 169521 A (*SEKISUI CHEM CO LTD*), 9 July 1993; and

5. PATENT ABSTRACTS OF JAPAN, vol. 1998, no. 06, 30 April 1998 & JP 10
046021 A to *NIPPON G II PLAST KK*.

Respectfully submitted,

A handwritten signature in dark ink, appearing to read "Michael W. Ferrell". The signature is fluid and cursive, with the first name "Michael" and last name "Ferrell" clearly distinguishable.

Michael W. Ferrell
Attorney for Applicants
Reg. No. 31,158

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Clifton, Virginia 20124-1706
Telephone: (703) 968-8600
Facsimile: (703) 968-5500

CERTIFICATE OF MAILING BY FIRST CLASS MAIL (37 CFR 1.8)Applicant(s): **Erland R. Sandstrom et al.**

Docket No.

2160-1B (FJ-99-36-1B)

Serial No.

10/625,576

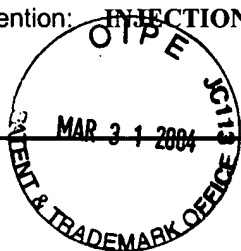
Filing Date

July 23, 2003

Examiner

UNKNOWN

Group Art Unit

1772Invention: **INJECTION BLOW-MOLDED DISPOSABLE TUMBLER AND METHOD OF MAKING SAME**I hereby certify that this **IDS, w/references, PTO-1449 and return postcard***(Identify type of correspondence)*

is being deposited with the United States Postal Service as first class mail in an envelope addressed to:

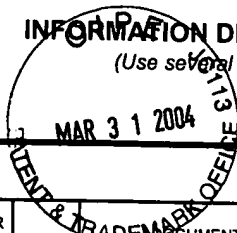
Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on **March 29, 2004***(Date)***Carol R. Maddaloni***(Typed or Printed Name of Person Mailing Correspondence)*

A handwritten signature in cursive script that reads "Carol R. Maddaloni".

*(Signature of Person Mailing Correspondence)***Note: Each paper must have its own certificate of mailing.**

INFORMATION DISCLOSURE CITATION

(Use several sheets if necessary)



ATTY DOCKET NO.
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1772

U.S. PATENT DOCUMENTS

*EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	U.S. Patent 3,183,552	5/18/65	Farkas	18	5	
	U.S. Patent 3,339,231	9/5/67	Piotrowski	18	5	
	U.S. Patent 3,819,314	6/25/74	Marcus	425	249	
	U.S. Patent 3,951,903	4/20/76	Shaffer	260	37 PC	
	U.S. Patent 4,046,836	9/6/77	Adelmann et al.	260	860	
	U.S. Patent 4,081,395	3/28/78	Talley	252	106	
	U.S. Patent 4,139,517	2/13/79	Zaganiacz	260	37 PC	
	U.S. Patent 4,193,494	3/18/80	Green	206	217	
	U.S. Patent 4,225,304	9/30/80	Valyi	425	526	
	U.S. Patent 4,230,298	10/28/80	Valyi	249	65	
	U.S. Patent 4,234,302	11/18/80	Valyi	425	526	

FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
						YES	NO
	Canadian Pat. 995,418 /	8/24/76	Canada			✓	
	Offen. 2 007 552 /	9/2/71	Germany	81c	11	✓	
	EPO Pub. 1 008 528 A2 ✓	6/14/00	EPO	B65D	1/46	✓	
	EPO Pub. 0 167 660 A2 /	1/15/86	EPO	B29C	49/06	✓	
	EPO Pub. 0 753 540 A2 ✓	1/15/97	EPO	C08L	69/00	✓	

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

DATABASE WPI, Section Ch, Week 199719, Derwent Publications Ltd., London, GB; Class A23, AN 1997-209397, XP002176702 & JP 09 059367
 Patent Abstracts of Japan, vol. 017, no. 576 (M-1499), 20 October 1993 & JP 05 169521 A (SEKISUI CHEM CO LTD), 9 July 1993
 Patent Abstracts of Japan, vol. 1998, no. 06j, 30 April 1998 & JP 10 046021 A to NIPPON G I PLAST KK
 Kirk-Othmer Encyclopedia of Chemical Technology, Fourth Edition, Vol. 19, p. 600

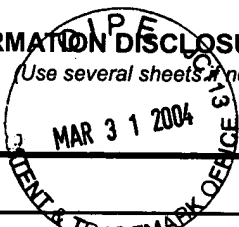
EXAMINER

DATE CONSIDERED

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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(Use several sheets if necessary)



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U.S. PATENT DOCUMENTS

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	U.S. Patent 4,308,086	12/29/81	Valyi	156	423	
	U.S. Patent 4,513,037	4/23/85	Collins	428	35	
	U.S. Patent 4,540,543	9/10/85	Thomas et al.	264	526	
	U.S. Patent 5,145,895	9/8/92	Kohler et al.	524	160	
	U.S. Patent 5,223,162	6/29/93	Rossio	252	33.2	
	U.S. Patent 5,427,269	6/27/95	Willbrandt	220	669	
	U.S. Patent 5,433,337	7/18/95	Willbrndt	220	669	
	U.S. Patent 5,449,089	9/12/95	Turner et al.	220	675	
	U.S. Patent 5,466,413	11/14/95	Richter et al.	264	521	
	U.S. Patent 5,494,952	2/27/96	Hirata et al.	524	139	
	U.S. Patent 5,693,278	12/2/97	Clements	264	176.1	

FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
						YES	NO
	EPO Pub. 0 640 646 A1 ✓	3/1/95	EPO	C08K	5/42	✓	
	PCT Pub. WO 95/02979 ✓	2/2/95	PCT	A47G	19/23		✓
	Jap. Pub. 53 64262 ✓	6/8/78	Japan	C08L	69/00		✓
	EPO Pub. 0 511 617 A1 ✓	11/4/92	EPO	B29C	49/64	✓	

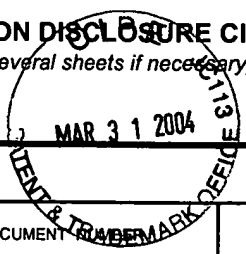
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

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U.S. PATENT DOCUMENTS

*EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	U.S. Patent 6,047,851	4/11/00	Freek	220	780	
	U.S. Patent 6,050,509	4/18/00	Clarey et al.	241	21	

FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
						YES	NO
	Jap. Kokai 59-209520 ✓	11/28/84	Japan	B65D	1/00	✓	
	Jap. Kokai 53-84044 ✓	7/25/78	Japan	C08L	23/12	✓	

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